

**DOCKET NO. D-2004-014 CP-2**

**DELAWARE RIVER BASIN COMMISSION**

**Borough of Riverton  
Wastewater Treatment Plant  
Riverton Borough, Burlington County, New Jersey**

**PROCEEDINGS**

This docket is issued in response to an Application submitted to the Delaware River Basin Commission (DRBC or Commission) by T&M Associates on behalf of the Borough of Riverton on May 2, 2011 (Application), for approval of a wastewater treatment plant (WWTP). The New Jersey Department of Environmental Protections (NJDEP) issued New Jersey Pollutant Discharge Elimination System (NJPDES) Permit No. NJ0021610 for this project on December 4, 2010.

The Application was reviewed for continuation of the project in the Comprehensive Plan and approval under Section 3.8 of the *Delaware River Basin Compact*. The Burlington County Planning Board has been notified of pending action. A public hearing on this project was held by the DRBC on March 7, 2012.

**A. DESCRIPTION**

**1. Purpose.** The purpose of this docket is to approve the existing 0.22 million gallons per day (mgd) Riverton WWTP. The WWTP was previously approved by the DRBC via Docket No. D-2004-014 CP-1 on July 14, 2004; however, the docket holder did not submit an application for renewal prior to the docket expiring on May 27, 2009.

**2. Location.** The project is located at 3<sup>rd</sup> Avenue and Martha's Lane in the Borough of Riverton, Burlington County, New Jersey. The WWTP will continue to discharge treated effluent to Pompeston Creek just upstream of its confluence with the Water Quality Zone 2 of the Delaware River at River Mile 108.76 – 0.01 (Delaware River – Pompeston Creek).

The project outfall is located in the Delaware River Watershed as follows:

OUTFALL NO.	LATITUDE (N)	LONGITUDE (W)
001A	40° 00' 56"	75° 00' 38"

**3. Area Served.** The docket holder's WWTP will continue to receive wastewater flows from the Borough of Riverton in Burlington County, New Jersey. For the purpose of defining the Area Served, the Application is incorporated herein by reference consistent with conditions contained in the DECISION section of this docket.

**4. Physical features.**

**a. Design criteria.** The existing Riverton WWTP has a hydraulic design capacity of 0.22 mgd via parallel Sequencing Batch Reactor (SBR) treatment system providing equalization, aeration, and clarification with post treatment equalization and ultraviolet light disinfection system.

**b. Facilities.** The existing WWTP facilities consist of a bar screen, a comminutor, a pumping station, two sequencing batch reactors, a post-equalization basin, and an ultraviolet light disinfection unit. The WWTP also features a sludge holding tank.

Wasted sludge will continue to be hauled off-site by a licensed hauler for disposal at a State-approved facility.

**c. Water withdrawals.** The potable water supply in the project service area is provided from groundwater wells and surface water sources owned and operated by the New Jersey American Water Company (NJAWC). The most recent docket approval for water withdrawal is described in detail in DRBC Docket No. D-1992-077 CP-1, which was approved on September 22, 1993.

**d. NJPDES Permit / DRBC Docket.** NJPDES Permit No. NJ0021610, issued by the NJDEP on December 4, 2010, includes effluent limitations for the existing project discharge of 0.22 mgd to surface waters classified by the NJDEP as Delaware River Water Quality Zone 2. The following average monthly effluent limits are among those listed in the NJPDES permit and meet or are more stringent than the effluent requirements of the DRBC.

**EFFLUENT TABLE A-1: DRBC parameters included in NJPDES permit**

001A (Discharge to Water Quality Zone 2)		
PARAMETER	LIMIT	MONITORING
pH (Standard Units)	6 to 9 at all times	As required by NJPDES permit
Total Suspended Solids	30 mg/l (85% minimum removal)	As required by NJPDES permit
BOD (5-Day at 20° C)	30 mg/l (88.5% minimum removal) 31.4 kg/day	As required by NJPDES permit
Ammonia Nitrogen	35 mg/l	As required by NJPDES permit
Fecal Coliform	200 colonies per 100 ml	As required by NJPDES permit

**EFFLUENT TABLE A-2: DRBC parameters not included in NJPDES permit**

<b>001A (Discharge to Water Quality Zone 2)</b>		
<b>PARAMETER</b>	<b>LIMIT</b>	<b>MONITORING</b>
Total Dissolved Solids*	Monitor Only	Quarterly
CBOD (20-Day at 20° C)**	98 lbs/day (88.5% minimum removal)	Monthly

\* See Condition II.r in Decision Section

\*\* See Findings Section and Condition II.q. in the Decision Section

e. **Relationship to the Comprehensive Plan.** The original 0.22 mgd Riverton WWTP was included in the DRBC Comprehensive Plan by Docket No. D-1989-092 CP-1 on April 25, 1990. A project to upgrade the WWTP was approved by Docket No. D-2004-014 CP-1 on July 13, 2004.

### **FINDINGS**

The purpose of this docket is to approve the docket holder's existing 0.22 mgd Riverton WWTP. No modifications to the WWTP are proposed.

On July 13, 2004, the Commission approved DRBC Docket No. D-2004-014 CP-1 for an upgrade of the Riverton WWTP. Condition II.m. in the Decision section of the docket required the docket holder to file an application for docket renewal at least 12 months prior to the expiration of the docket (May 27, 2009). The docket holder did not submit an application for renewal of the docket until May 2, 2011.

#### **CBOD<sub>20</sub> Wasteload Allocation**

The Commission's *Water Quality Regulations (WQR)* provide for the allocation of the stream assimilative capacity where waste discharges would otherwise result in exceeding such capacity. It was determined in the late 1960's that discharges to the Delaware Estuary be limited to a total of 322,000 lbs/day of carbonaceous biochemical (first stage) oxygen demand (CBOD<sub>20</sub>). In accordance with the *WQR*, the assimilative capacity of each Delaware Estuary zone minus a reserve was originally allocated in 1968 among the individual dischargers based upon the concept of uniform reduction of raw waste in a zone (Zones 2, 3, 4 and 5). The totals and percent reduction for each zone are given in Table 1 of the Commission's *Status of CBOD<sub>20</sub> Wasteload Allocations* (Revised October 1, 2000). The Riverton WWTP is located in Zone 2 at river mile 108.8. Zone 2 is allocated at 26,964 lbs/day of CBOD<sub>20</sub> and has a minimum percent removal requirement of CBOD<sub>20</sub> of 88.50%. The Commission approved a CBOD<sub>20</sub> allocation for the Riverton WWTP of 98 lbs/day. This docket will continue the approval to discharge up to 98 lbs/day of CBOD<sub>20</sub> for the existing facility.

#### **CBOD<sub>20</sub> Monitoring**

The docket holder may request to establish a ratio between BOD<sub>5</sub> and CBOD<sub>20</sub> in order to reduce the required monitoring for CBOD<sub>20</sub> contained in the effluent tables in Section A.4.d. of this docket. The docket holder shall submit the request in writing to the Executive Director

along with historical influent and effluent data for BOD<sub>5</sub> and CBOD<sub>20</sub> used to establish the ratio. Upon review, the Executive Director may modify the docket to require only BOD<sub>5</sub> monitoring or reduce the CBOD<sub>20</sub> monitoring frequency required within this docket (See Condition II.q. in the Decision Section).

The limits in the NJPDES Permit for the existing discharge are in compliance with Commission effluent quality requirements, where applicable.

The project is designed to produce a discharge meeting the effluent requirements as set forth in the *Water Quality Regulations* of the DRBC.

There are no public water supply intakes downstream of the project discharge.

The project does not conflict with the Comprehensive Plan and is designed to prevent substantial adverse impact on the water resources related environment, while sustaining the current and future water uses and development of the water resources of the Basin.

### C. DECISION

I. Effective on the approval date for Docket No. D-2004-014 CP-2 below:

a. The projects described in Docket Nos. D-1989-092 CP-1 and D-2004-014 CP-1 are removed from the Comprehensive Plan to the extent that they are not included in Docket No. D-2004-014 CP-2; and

b. Docket Nos. D-1989-092 CP-1 and D-2004-014 CP-1 are terminated and replaced by Docket No. D-2004-014 CP-2.

II. The project and appurtenant facilities as described in the Section A “Physical features” of this docket entitled “Physical features” above are approved pursuant to Section 3.8 of the *Compact*, subject to the following conditions:

a. Docket approval is subject to all conditions, requirements, and limitations imposed by the NJDEP in its NJPDES permit, and such conditions, requirements, and limitations are incorporated herein, unless they are less stringent than the Commission’s.

b. The facility and operational records shall be available at all times for inspection by the DRBC.

c. The facility shall be operated at all times to comply with the requirements of the *Water Quality Regulations* of the DRBC.

d. The docket holder shall comply with the requirements contained in the Effluent Tables in Section A.4.d. of this docket. The docket holder shall submit DRBC required monitoring results directly to DRBC (Project Review Section). The monitoring results shall be

submitted annually absent any observed limit violations (by January 31<sup>st</sup>). If a DRBC effluent limit is violated, the docket holder shall submit the result(s) to the DRBC within 30 days of the violation(s) and provide a written explanation that states the action(s) the docket holder has taken to correct the violation(s) and protect against any future violations.

e. Except as otherwise authorized by this docket, if the docket holder seeks relief from any limitation based upon a DRBC water quality standard or minimum treatment requirement, the docket holder shall apply for approval from the Executive Director or for a docket revision in accordance with Section 3.8 of the *Compact* and the *Rules of Practice and Procedure*.

f. If at any time the receiving treatment plant proves unable to produce an effluent that is consistent with the requirements of this docket approval, no further connections shall be permitted until the deficiency is remedied.

g. Nothing herein shall be construed to exempt the docket holder from obtaining all necessary permits and/or approvals from other State, Federal or local government agencies having jurisdiction over this project.

h. The discharge of wastewater shall not increase the ambient temperatures of the receiving waters by more than 5°F above the average 24-hour temperature gradient displayed during the 1961-1966 period, nor shall such discharge result in stream temperatures exceeding 86°F.

i. The docket holder is permitted to treat and discharge the categories of wastewaters defined in the “Area Served” section of this docket.

j. The docket holder shall make wastewater discharge in such a manner as to avoid injury or damage to fish, wildlife, or aquatic life and shall avoid any injury to public or private property.

k. No sewer service connections shall be made to newly constructed premises with plumbing fixtures and fittings that do not comply with water conservation performance standards contained in Resolution No. 88-2 (Revision 2).

l. Nothing in this docket approval shall be construed as limiting the authority of DRBC to adopt and apply charges or other fees to this discharge or project.

m. The issuance of this docket approval shall not create any private or proprietary rights in the waters of the Basin, and the Commission reserves the right to amend, suspend or rescind the docket for cause, in order to ensure proper control, use and management of the water resources of the Basin.

n. A complete application for the renewal of this docket, or a notice of intent to cease the operations (withdrawal, discharge, etc.) approved by this docket by the expiration date, must be submitted to the DRBC at least 12 months prior to the expiration date below (unless permission has been granted by the DRBC for submission at a later date), using the

appropriate DRBC application form. In the event that a timely and complete application for renewal has been submitted and the DRBC is unable, through no fault of the docket holder, to reissue the docket before the expiration date below, the terms and conditions of this docket will remain fully effective and enforceable against the docket holder pending the grant or denial of the application for docket approval.

o. The Executive Director may modify or suspend this approval or any condition thereof, or require mitigating measures pending additional review, if in the Executive Director's judgment such modification or suspension is required to protect the water resources of the Basin.

p. Any person who objects to a docket decision by the Commission may request a hearing in accordance with Article 6 of the Rules of Practice and Procedure. In accordance with Section 15.1(p) of the Delaware River Basin Compact, cases and controversies arising under the Compact are reviewable in the United States district courts.

q. The docket holder may request of the Executive Director in writing to establish a ratio between BOD<sub>5</sub> and CBOD<sub>20</sub> in order to reduce the required monitoring contained within this docket approval. Upon review, the Executive Director may modify the docket to reduce or eliminate the CBOD<sub>20</sub> monitoring requirements contained in the effluent tables in Section A.4.d. of this docket.

r. The docket holder may request of the Executive Director in writing the substitution of specific conductance for TDS. The request should include information that supports the effluent specific correlation between TDS and specific conductance. Upon review, the Executive Director may modify the docket to allow the substitution of specific conductance for TDS monitoring.

**BY THE COMMISSION**

**DATE APPROVED: March 7, 2012**

**EXPIRATION DATE: December 31, 2015**